



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

ADDENDUM 2
Division 3 Roadside Environmental Shelter Renovation
Burgaw, NC SCO ID# 07-07006-02A
June 9, 2010

PLEASE NOTE RECEIPT OF THIS ADDENDUM ON YOUR BID

PER ADDENDUM 1, SEALED BIDS WILL BE RECEIVED UNTIL
3:00 PM, Thursday, June 17, 2010,

Item 1: Contractor will provide one visit from NC One Call to the site prior to commencing work, to mark all underground utilities.

Item 2: Reference 04/A1 – Concrete apron at existing enclosed bay is narrower than shown (approx. 18"). GC to remove this apron, and to pour a new apron as a continuation of the new apron in front of the other four bays. This apron continues around the east side to become the new 5' wide sidewalk shown (see the attached Bulletin #1 drawing). Note at new bollard at existing bay should read "new 6" diameter bollard, typical". All new personnel doors will get aluminum thresholds bedded in mastic, closers, entrance locksets with lever handles, and weatherstripping. There is no existing asphalt on the west side of the building, where the building addition will be placed.

Item 3: Reference 01/T1 and P1.1 - the existing 2" pvc water line is shown incorrectly on the site plan; it terminates outside the building at the approximate location of the new personnel door, at a hand pump, and runs northeast to an RPZ at Building #31. Contractor is to remove the hand pump, and install the new RPZ and water line shown in P1.1. Water line is to be fully insulated.

Item 4: The Owner will provide the liner for the sump pit; it covers the entire pit. This work needs to be coordinated with the installation of the chemical piping. The General Contractor needs to install the sump pit in a continuous pour, as shown, without a joint between the walls and floor of the pit.

Item 5: Reference 09900.B.1.b: eliminate solvent based epoxy floor sealer. Use clear sealant on all new concrete slabs (not on interior of sump pit); do not re-treat the slab in the existing enclosed bay.

Item 6: E1.1, note 3: Contractor to provide empty 2" (not 1") conduit; extend 5' outside of building and provide pullstring, and new handhole at grade.

Item 7: Clarification 04/A1: OSB or plywood draftstop only has to occur on one side of the truss in the attic area.

Item 8: Reference detail 10/A3: Substitute plywood soffit, painted, with two – 4" aluminum continuous soffit vents for pre-finished aluminum soffit shown. Enclose underside of soffit at gable ends with solid plywood soffit material, painted. Add gutter to rear of building. Take water to gable ends and into the cisterns (eliminate downspouts shown at rear of building)

Item 9: Clarification: Electric conduit will be run in the attic, and the junction boxes will be mounted to the new ceiling. The water lines will be run under the ceiling, fully insulated, in the conditioned space.

MAILING ADDRESS:
NC DEPARTMENT OF TRANSPORTATION
GENERAL SERVICES DIVISION
1525 MAIL SERVICE CENTER
RALEIGH NC 27699-1525

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WEBSITE: WWW.NCDOT.ORG

LOCATION:
TRANSPORTATION BUILDING
1 SOUTH WILMINGTON STREET
RALEIGH NC

Item 10: See the attached Bulletin #1 drawing for the corrected location of the existing personnel door and electrical panel. The new panel will be placed in the same location as the existing panel.

Item 11: Reference detail 04/A1 – note in middle of floor plan – in reference to “owner to add new 1-2” rigid insulation...” substitute “General Contractor” for “Owner”.

Item 12: Reference 01100.A.2: Eliminate “All work will be performed by Owner”. Add the following General Requirements to this specification section:

01300 - ADMINISTRATIVE REQUIREMENTS

A. Project Management and Coordination: Construction Administration shall be by NCDOT Facilities Design Section/ Engineering Source of North Carolina, P.A. (PME).

B. Submittal Procedures: See 01400, 01600, 01780, and product specifications for submittals required.

1. Submittals for Review: Shop drawings, product data, and samples.
 - a. All submittals: Three minimum for project record, two copies which will be retained..
 - b. Samples: Two of each, unless more are specified, one of which will be retained for project record, for review only for aesthetic characteristics or color or finish selection.
2. Submittals for Information: Certificates, certifications, and test reports - submit 2 copies for record.
3. Preparing Submittals:
 - a. Do not make requests for deviations from contract documents via shop drawings, product data, or samples; deviations will not be valid unless specifically approved under specified modification procedures.
 - b. Manufacturers' Standard Printed Data: Cross out inapplicable data or otherwise annotate to show applicable products, options, models, etc.

01400 - QUALITY REQUIREMENTS

A. Regulatory Requirements: Compliance with 2009 North Carolina State Building Code

B. Quality Control:

1. Field Testing and Inspection: Perform all testing, observation, and inspection required by code; compaction and concrete testing will be done by Owner's forces. Provide a written report of each test or inspection, including details of conditions, methods, and results. Provide certificates required.

01500 - TEMPORARY FACILITIES AND CONTROLS

A. Temporary Utilities:

1. Electrical Power: Installed by Electrical Contractor; consisting of temporary service for construction; can be installed on Owner's service.
2. Water: By Owner; consisting of Contractor's temporary tap on Owner's service.

B. Construction Facilities: Provide all facilities required for construction purposes.

1. Sanitary Facilities: By the General Contractor
2. Field Offices: Not required

C. Signs: No signs allowed on site without Owner's permission except those required by law.

D. Removal of Temporary Facilities, Utilities, and Controls: Prior to Substantial Completion, remove, clean up, and restore site to existing condition. All Contractors are responsible for their own daily clean-up.

01600 - PRODUCT REQUIREMENTS

A. Basic Product Requirements:

1. Warranties: Provide all warranties offered by manufacturers and as specified.

B. Product Options:

1. Where Substitutions are Allowed and Manufacturers or Brands are Named: Submit request for substitution for any manufacturer or product not named. Substitutions will not be considered if they are indicated or implied only on shop drawings or other submittals.

C. Product Submittals Required: Design and engineering data as required, shop drawings, product data, samples, certificates, and warranty data.

01700 - EXECUTION REQUIREMENTS

- A. Examination: Before starting work, verify substrate capability, and field dimensions.**
- B. Preparation: A pre-construction conference will be held to review all site issues and requirements**
- C. Execution:**
 - 1. Install products in manner specified and as required or recommended by manufacturer; if manufacturer's instructions conflict with contract documents, request clarification before proceeding.
- D. Starting Equipment and Systems:**
 - 1. Before starting, verify that Equipment or system has been properly installed, lubricated, and adjusted, proper utility connections have been made correctly, and that electrical characteristics, meter readings, and test results agree with those required by the equipment or system manufacturer. A final inspection by the State Electrical Inspector will be required.

01780 - CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data:**
 - 1. Products, Including Equipment:
 - a. Manufacturer's catalog sheets, marked to clearly identify products actually used and data applicable to actual installation.
 - b. Complete operation, adjustment, shut-down, troubleshooting, cleaning, preventative maintenance, inspection, and repair instructions and precautions, prepared especially for project if necessary, incorporating manufacturer's recommendations and diagrams.
 - c. Original manufacturer's replaceable parts list, with current prices, and recommended quantities to be kept in storage.
- B. Warranties: Execute in duplicate, notarize, and mark with applicable specification number.**
- C. Spare Parts and Extra Materials: Provide 1 gallon of each paint/sealant**

Item 13: Equipment and materials in the building will be removed by the Owner prior to the construction. The Owner will not occupy the building during the renovation work.

Item 14: The General Contractor will provide the rain cisterns, straps, pads/sidewalk as shown, downspouts, and connections.

PME:

Item 15: Drawing E1.1 – Remove existing receptacle on back wall of large storage area. Approximately four (4) in quantity.

Item 16: Drawing E1.1 & E2.1 – Power feeder shall be new. There is no existing conduit in place. Existing service feeder is direct burial cable and floor in the small bay is dirt and stone not concrete.

Item 17: Drawing E1.1 & E1.2 – Not intended for power and telecom to run in same conduit or duct bank. See revised details on bulletin drawings.

Item 18: Drawing E1.1 & M1.1 – Existing Electric Unit Heater in small bay to remain. Reconnect to new panel. See bulletin drawings.

Item 19: Drawing E2.1 – Changed Note #3 on the Power Riser Diagram to address the new feeder and the distance of panel from power pole drop.

Item 20: Drawing E2.1 – Changed Telecom Board detail to call for conduit to stop 5'-0" outside of building. See bulletin drawings.

Item 21: Drawing E2.1 – Updated panel schedule to reflect gas heaters and reconnection of existing electric unit heater. Two pole spares shall remain for possible future equipment.

Item 22: Drawing E1.1 – It is the intent of the plans that the new electrical service panel remain in the same location that the existing panel is.

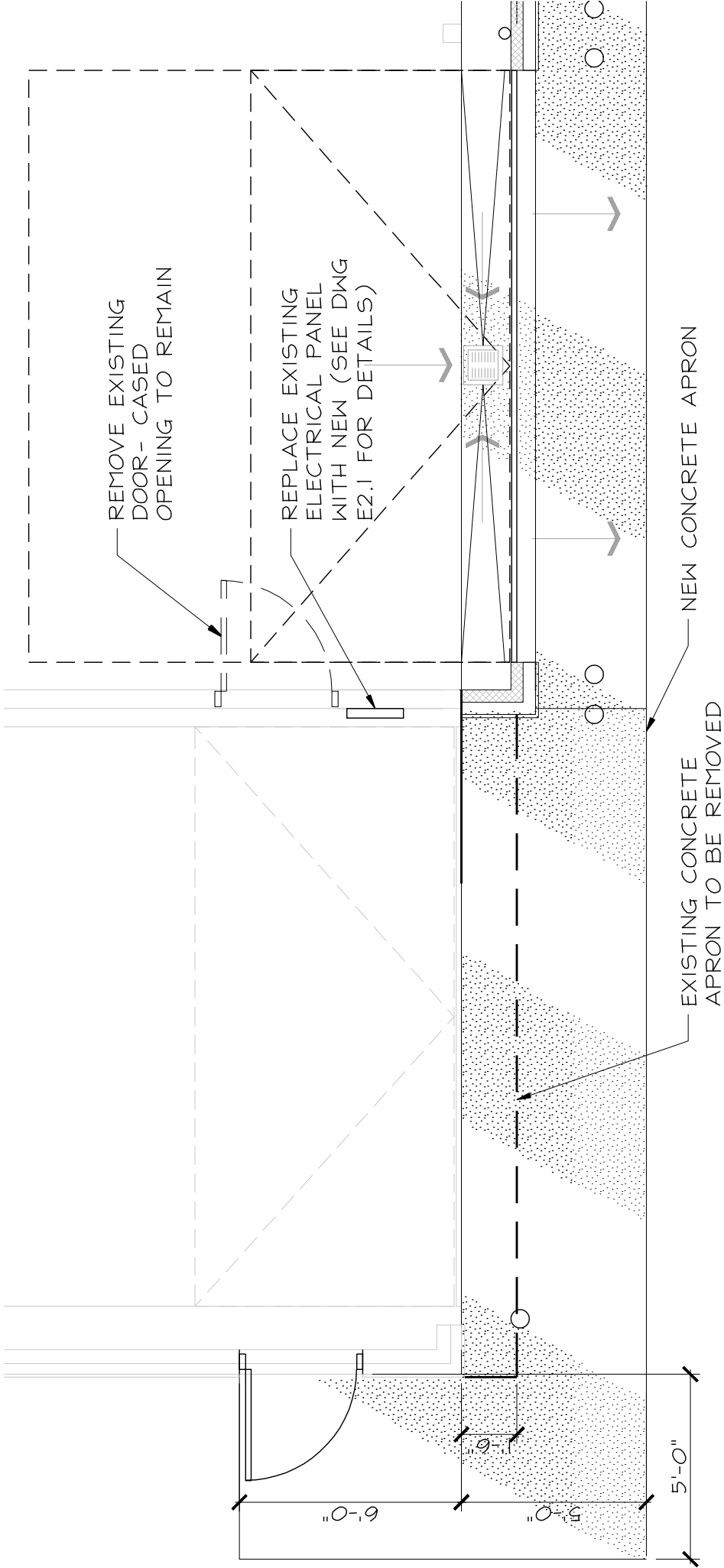
END OF ADDENDUM 2



EXISTING SERVICE DOOR & ELECTRICAL PANEL

BULLETIN #1 ID # 07-07006-02A

EXISTING SERVICE DOOR AND EXISTING/ NEW ELECTRICAL PANEL LOCATION IS AS SHOWN IN THIS BULLETIN. GC TO REMOVE EXISTING APRON IN FRONT OF ENCLOSED BAY AND TO POUR A NEW APRON AS A CONTINUATION OF THE NEW APRON IN FRONT OF THE OTHER FOUR BAYS. THIS APRON CONTINUES AROUND THE EAST SIDE TO BECOME THE NEW 5' WIDE SIDEWALK AS SHOWN IN THIS BULLETIN.



REFERENCE FROM (04/A1) FLOOR PLAN

SCALE: 3/16" = 1'-0"

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BURGAW ROADSIDE STORAGE
SHELTER RENOVATION
HIGHWAY DIVISION 3, NCDOT
PENDER COUNTY, NORTH CAROLINA

PROJECT:

SCO ID NO.

07-07006-02A

REVISIONS

NO.

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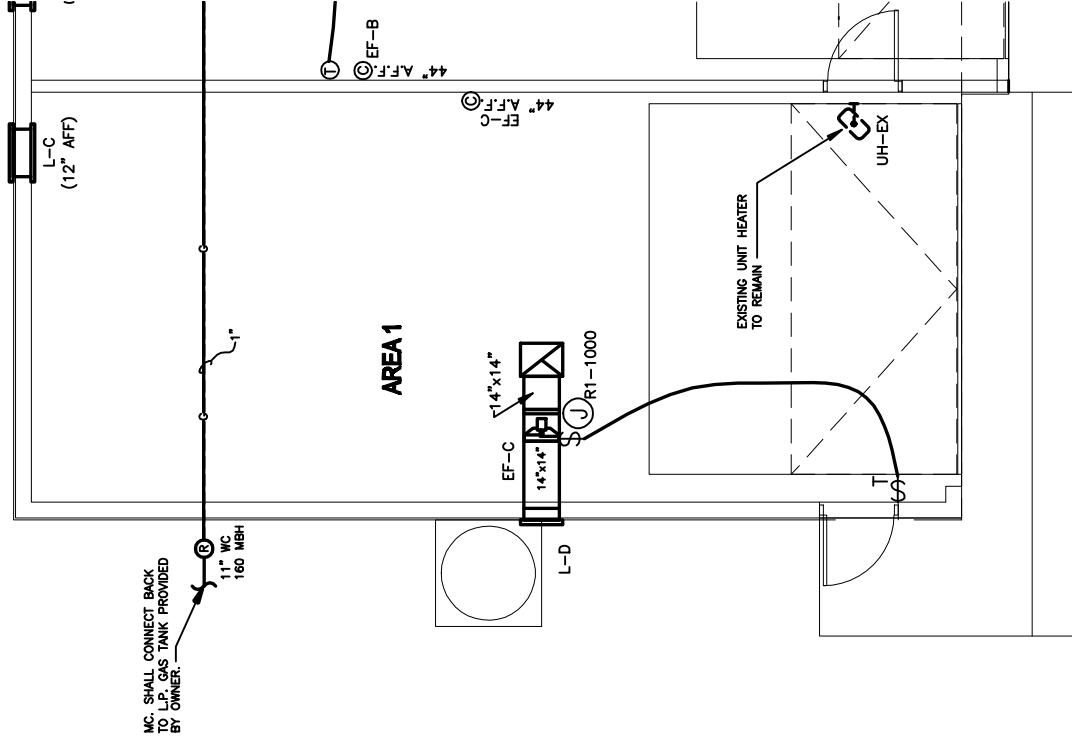
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BULLETIN #2 ID # 07-07006-02A
REFERENCE DRAWING M1.1:

REMOVED ONE OF THE RADIANT HEATERS, TOTAL OF 3 REMAIN IN THE
CONTRACT DOCUMENTS. EXISTING ELECTRIC UNIT HEATER TO REMAIN
AS SHOWN IN THE PARTIAL PLAN ATTACHED.



PARTIAL HVAC PLAN

SCALE: 1/8"=1'-0"

SCALE:

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PROJECT:
BURGAU ROADSIDE STORAGE
SHELTER RENOVATION
HIGHWAY DIVISION 3, NCDOT
PENDER COUNTY, NORTH CAROLINA

SDO ID NO.
07-07006-02A

REVISIONS
NO. DATE

DATE ISSUED: 06-09-10

DRAWN BY: DEW

CHECKED BY: DMP

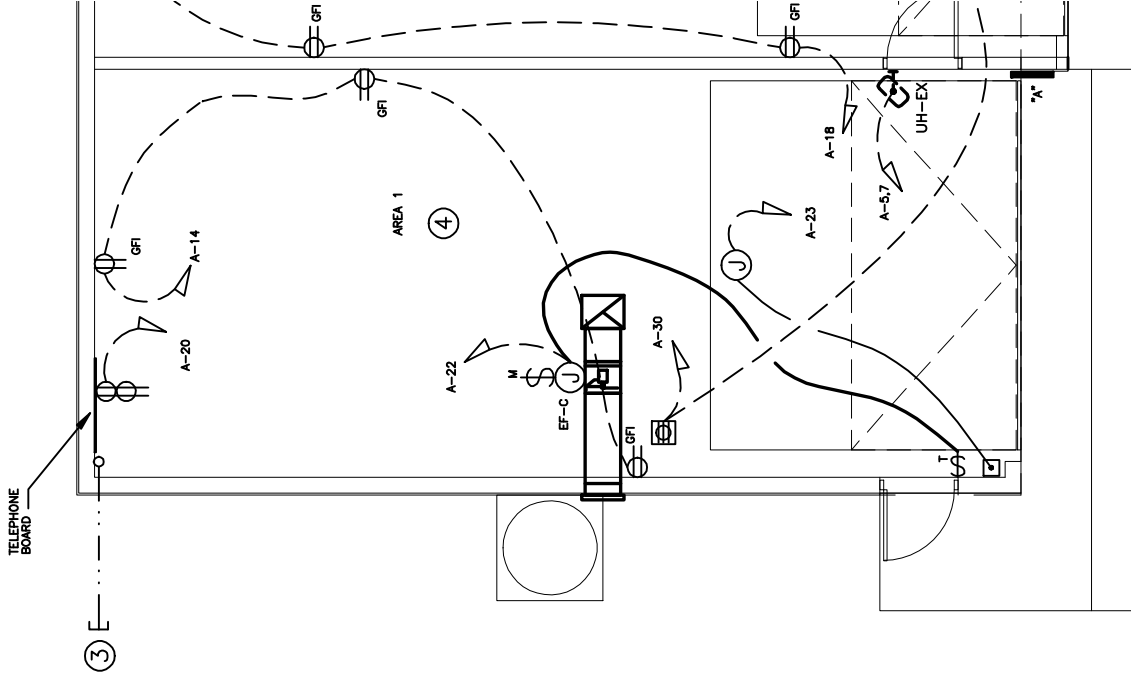
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M-1R

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BULLETIN #3 ID # 07-07006-02A
REFERENCE DRAWING E1.1:

REMOVED ONE OF THE RADIANT HEATERS, TOTAL OF 3 REMAIN IN THE CONTRACT DOCUMENTS. EXISTING ELECTRIC UNIT HEATER TO REMAIN, RECONNECT TO NEW PANEL CIRCUIT INDICATED ON THE ATTACHED PARTIAL PLAN. REVISED PLAN NOTE #3 TO CLARIFY TELECOM CONDUIT LENGTH.



PARTIAL HVAC PLAN

SCALE: 1/8" = 1'-0"

- POWER PLAN NOTES:**
E.C. SHALL REFER TO MECHANICAL PLAN M1.1 FOR ELECTRICAL UNIT HEATER SPECIFICATIONS
- 1 E.C. SHALL VERIFY EXACT SPECIFICATIONS FOR SLUMP PUMP PRIOR TO INSTALLATION. MODIFY BREAKER AND WIRE SIZE AS NECESSARY.
 - 2 E.C. SHALL PROVIDE AN EMPTY 1" CONDUIT, WITH PULL STRING, UNDER SLAB BOTH ENDS.
 - 3 E.C. SHALL COORDINATE UNIT HEATER LOCATIONS WITH LIGHTS AND OVERHEAD DOORS WHEN OPENED, AND COMPLY WITH ALL MANUFACTURER'S INSTALLATION REQUIREMENTS.

SEAL:

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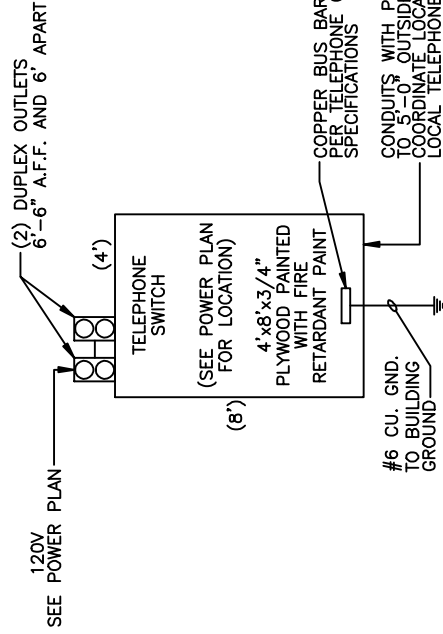
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2 OF 4



NOTE:
SECURE SPECS FROM LOCAL TELEPHONE CO. AS TO THEIR REQUIREMENTS REGARDING INSTALLATION OF UNDERGROUND CONDUITS, GROUNDING, TELEPHONE BOARD, ETC. AND PROVIDE AS NECESSARY.

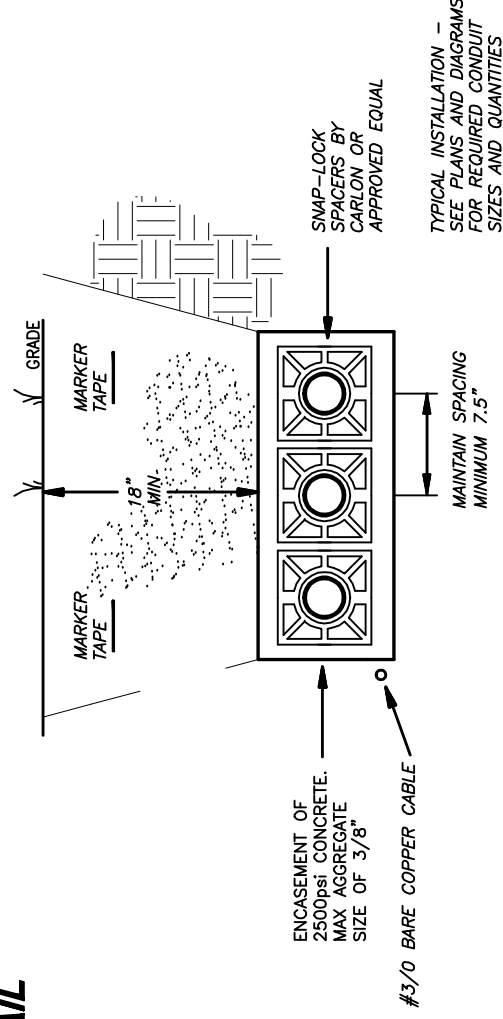
TELEPHONE BOARD DETAIL

SCALE: NTS

BULLETIN #4 ID # 07-07006-02A

REFERENCE DRAWING E1.2:

CHANGED DETAILS TO REFLECT PROPER LOCATION AND LENGTH OF TELECOM CONDUIT AND TO CLARIFY THAT DUCT BANK IS FOR POWER FEEDER ONLY.



U/G POWER FEEDER INSTALLATION DETAIL

SCALE: N.T.S.

SCALE

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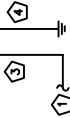
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BUILDING INTERIOR

NEW 200A
PANEL "A"
S.E. RATED
(2)
120/240V
1% 3W



ELECTRICAL RISER NOTES:

- E.C. SHALL COORDINATE WITH LOCAL UTILITY COMPANY IN REGARDS TO RENOVATED ELECTRICAL. VERIFY THAT EXISTING TRANSFORMER IS SIZED LARGE ENOUGH FOR NEW ADDITIONAL LOAD. PROVIDE ALL LABOR, MATERIALS, ETC. AS REQUIRED BY LOCAL UTILITY COMPANY.
- E.C. SHALL REMOVE EXISTING 100A, 240V, 1% LOADCENTER AND REPLACE WITH NEW 200A, 120/240V, 1%, MAIN BREAKER PANELBOARD.
- PROVIDE 3-#3/0 IN 2" BELOW SLAB. (APPROX. 200'-0")
- E.C. SHALL MODIFY FIELD SURVEY EXISTING GROUNDING SYSTEM OF BUILDING. MODIFY GROUNDING SYSTEM AS NECESSARY TO ACCOMMODATE NEW RENOVATION. GROUNDING SYSTEM MUST BE IN COMPLIANCE WITH NEC, ARTICLE 250.

ELECTRICAL RISER

SCALE: N.T.S.

BULLETIN #5 ID # 07-07006-02A
REFERENCE DRAWING E2.1:

CHANGED NOTE #3 IN ELECTRICAL RISER DIAGRAM TO CLARIFY LENGTH OF FEEDER AND DUCT BANK. UPDATED ELECTRICAL PANEL AND LOAD SUMMARY TO REFLECT RECONNECTION OF EXIST. ELECTRIC UNIT HEATER.

BUILDING ELECTRICAL LOAD SUMMARY			
LOAD	CONN. (KVA)	DEMAND (KVA)	DEMAND CALCULATION
LIGHTING	4.7	5.9	((CONNECTED x 1.25)
RECEPTACLES	3.6	7.8	{[(KVA -10) x 0.5]+10 KVA}
HVAC (HEATING)	6.2	7.8	{[(LGST LOAD x 1.25) + OTHER LOAD]
HVAC (COOLING)	-	-	N/A
WATER HEATER	-	-	(CONNECTED x 1.25)
MISC. EQUIP.	9.0	9.0	N/A
TOTAL	23.5	26.3	
TOTAL AMPS @ 240V/1Ø		109.6A	

PANELBOARD A		VOLTAGE: 120/240 .3 WIRE		NEUTRAL: <input type="checkbox"/> NONE <input type="checkbox"/> 50% <input type="checkbox"/> 100%	
MOUNTING: <input type="checkbox"/> FLUSH <input checked="" type="checkbox"/> SURFACE		FEED: <input type="checkbox"/> TOP <input checked="" type="checkbox"/> BOTTOM		FRAME: 200A BUS: <input type="checkbox"/> ALUMINUM <input checked="" type="checkbox"/> COPPER	
COVER: <input checked="" type="checkbox"/> DOOR WITH LOCK <input type="checkbox"/> DOOR WITHOUT LOCK		MAIN: <input type="checkbox"/> LUIG ONLY <input checked="" type="checkbox"/> MAIN BREAKER		TRIP: 200A	
DESCRIPTION	LOAD	CKT NO.	DESCRIPTION	LOAD	PHASE LOAD (VA)
SPARE		1	2 SPARE		0
H-2 THRU 4 FAN & IGNIGHTOR	1500	3			1500
UNIT HEATER (EXIST)	2500	5	6 SPARE		2500
(2-#10 & 1-#10G IN 3/4")	2500	7			2500
SPARE		9	10 SPARE		0
		11			0
LIGHTING CONTACTOR LC-1	250	13	14 AREA 1 REC	540	790
AREA 2 LTS	1152	15	16 AREA 2 LTS	1344	2496
AREA 2 REC	720	17	18 AREA 2 REC	900	1620
AREA 1 LTS	768	19	20 TELEPHONE BOARD	360	1128
EXTERIOR LTS	1475	21	22 AREA 1 EF-C	500	1975
OVERHEAD DOOR OPENER	1176	23	24 AREA 2 EF-A	80	1256
OVERHEAD DOOR OPENER	1176	25	26 AREA 2 EF-B	1176	2352
OVERHEAD DOOR OPENER	1176	27	28 TANK PUMP	300	1476
OVERHEAD DOOR OPENER	1176	29	30 OVERHEAD CORD SPOOLS	900	2076
OVERHEAD DOOR OPENER	1176	31	32 CONTAINMENT SUMP PUMP	686	1872
SPARE		33	34 SPARE		
SPARE		35	36 SPARE		
SPARE		37	38 SPARE		
SPARE		39	40 SPARE		
SPARE		41	42 SPARE		

PANELBOARD LOCATION: EXISTING BAY INTERIOR WALMANUFACTURER: SEE NOTE BELOW

MODEL/CAT. NO.: .NODD

FEED: SEE RISER

KEY: GFI BREAKER LOCKON ATTACH MULTIPOLE BREAKER PADLOCK ATTACH ARC FAULT CIRCUIT

TOTAL L1	11315
TOTAL L2	12228
TOTAL VA	23543

** PROVIDE PANELBOARD, LOADCENTERS ARE NOT ACCEPTABLE. PROVIDE SLD, G.E., SIEMENS OR CUTLER-HAMMER. **

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